Missouri Botanical Garden
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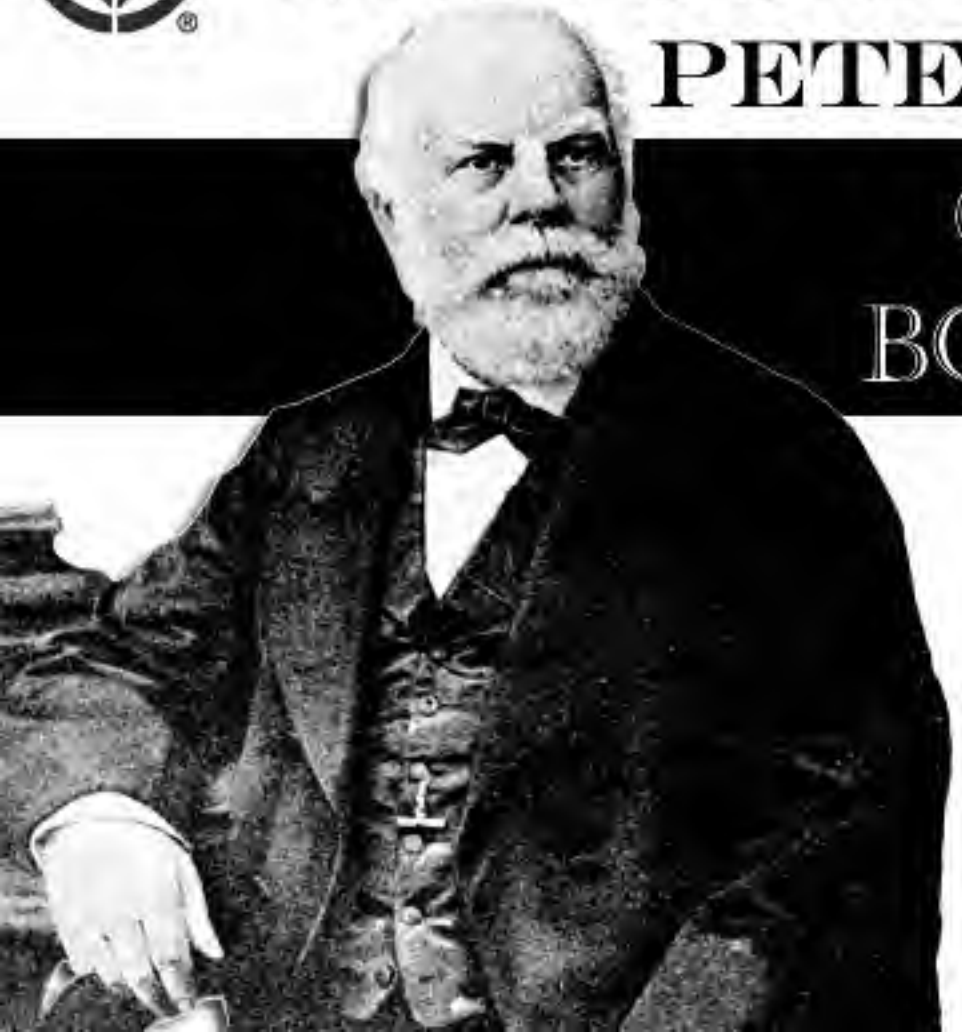

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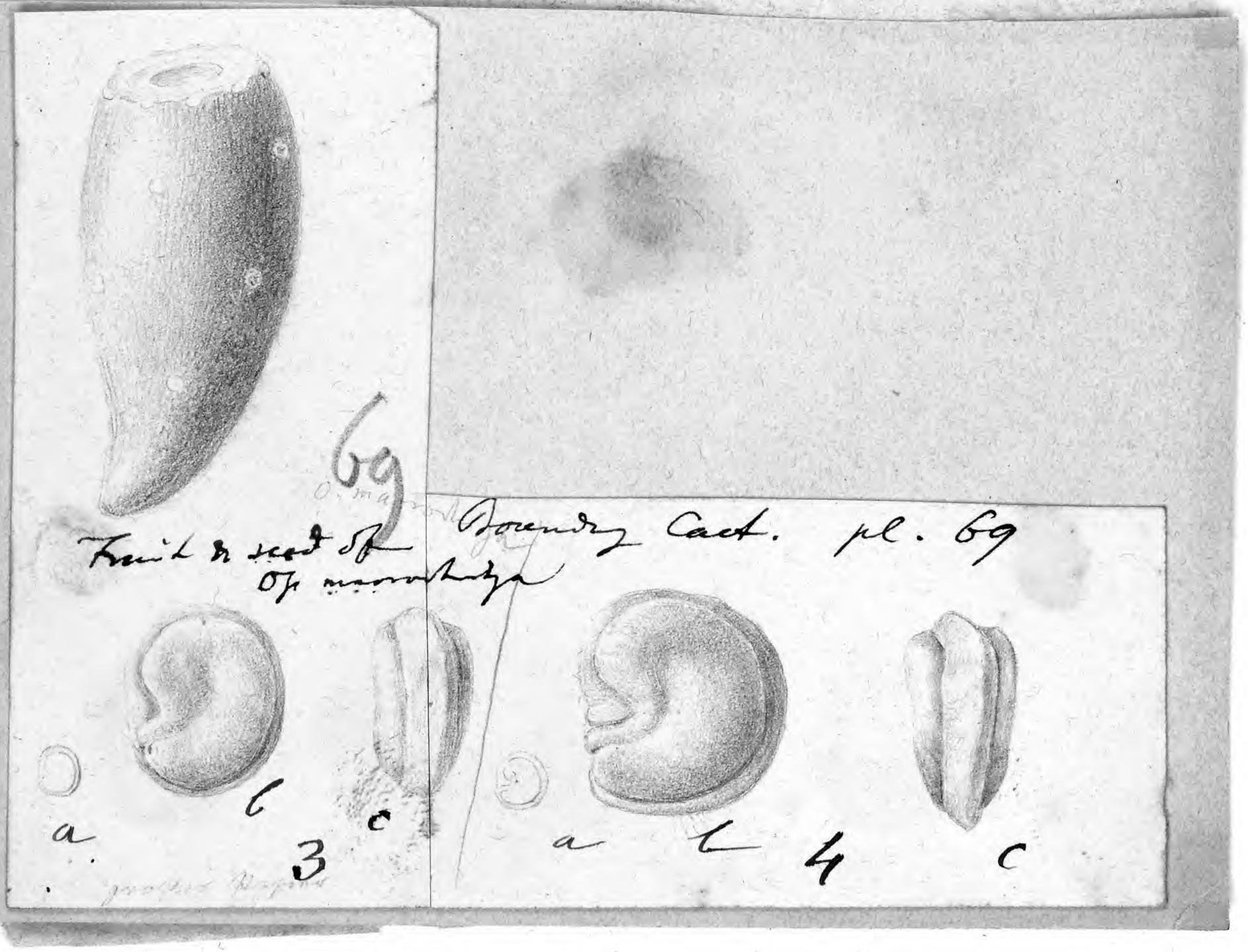

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Sept 1867

Opuntia

Hurt Bot Missouri sub nom: "O. spinulifera?" has long and slender leaves, about 2–2¼ l. long and ½ l. thick, reddish brown,

Opuntia

Hurt Bot Missouri sub nom "near O. spinulifera"

Caulis 2–3½' alta; ~~caulis~~ infra teres; articuli ovati 10–11 poll longi, 5–7" lati glaucescentes; areolae subremotae ovatae parvae isetis brevisculis stramineis pendulatis gerentes; folia parva crassiuscula linear lata longa; aculei setiformes 1–3 albidi.

Leaves very same as in O. oligacantha, that plant with more glaucous and joints much more elongated.

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Sept 1861

Opuntia decumana Haw. Pfeiff. 152 Amer. mend.

Hort Bot Madison. sub. nom. „58. O. decumana"

Aculeis in articulis novellis junioribus ex jam foliiferis 1–2 albis

setaceis 1–3 lin longis mox deciduis.

„ Articuli 1–1½ ped long. 8–10 poll lat, acul decid. longitudine

laneginis" Pfeiff. 152.

June 1865 Stem abt 8–9 feet high; largest joints

22 inches long.

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Cp. decumana #63 111.

2½ span long 1½ span

mostly 1½ sp. — 4 in.

1 sp. 1 long white

in old parts

often 3 ft. long

black short scaly

yellow

58 drum

8 feet high

Short & blunt

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Leitch & Corlies

DRUGGISTS

South West Corner Fifth and Market Streets.

3003

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Opuntia Decumana

Jan 20 1868

Hort Bot Melbourne Jan 1868

fruit of last summer –

scarlet to orange

40 areolae $\frac{8}{13}$ on fruit.

about 12 on edge

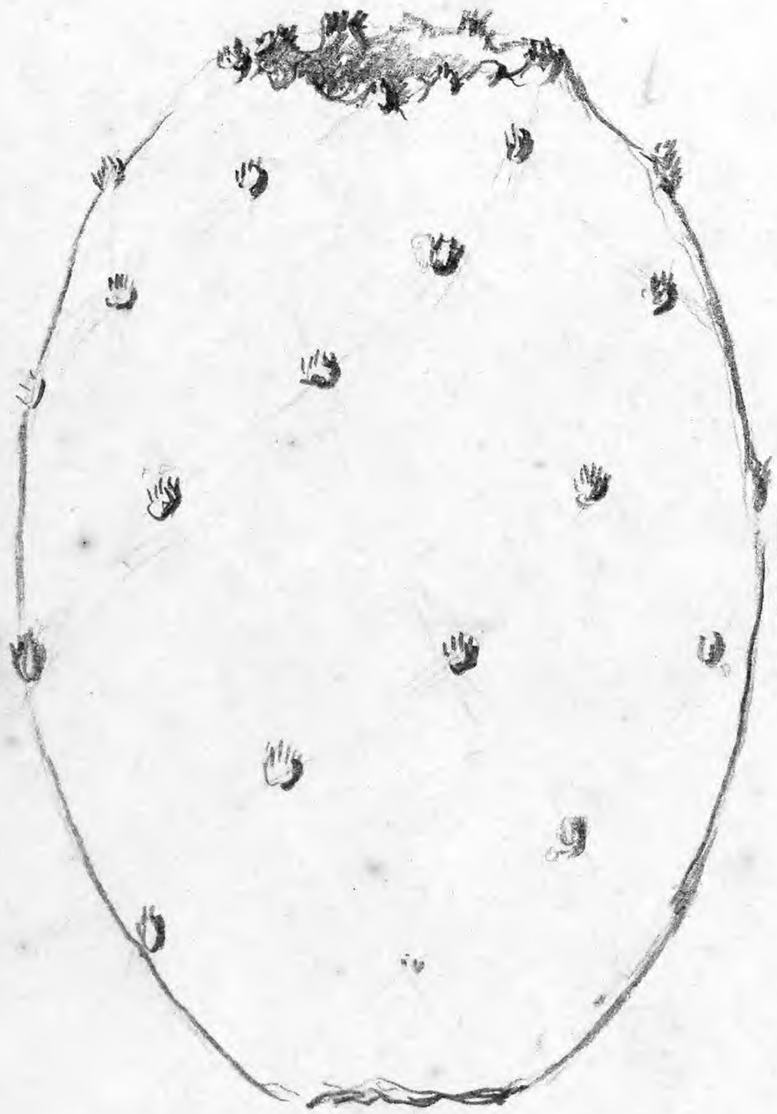
umbilicus about 8 m/m diam

rather shallow, strongly

marked by the scars of

petals.

Pulp orange



identical with

Op. Ficus indica

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JONES & LETTCH

Druggists

Cor. Fifth & Market Sts. St. Louis, Mo.

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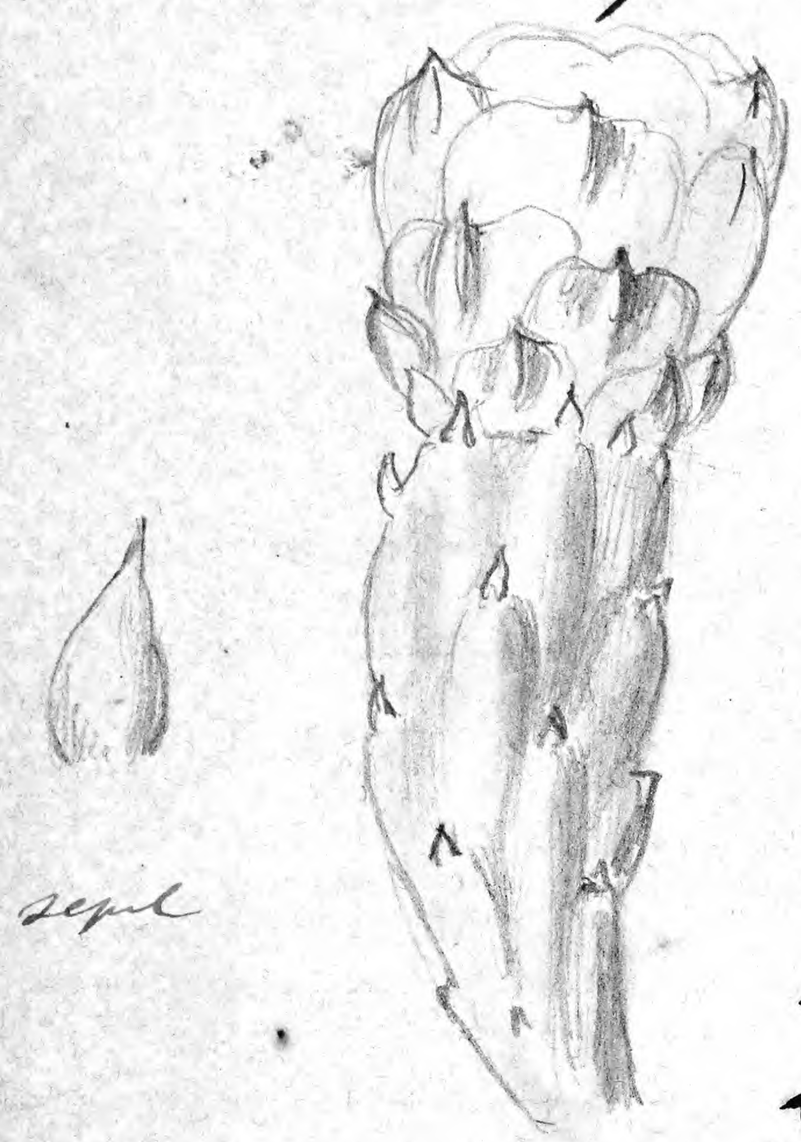
correct ??

Opuntia monacantha Haw.

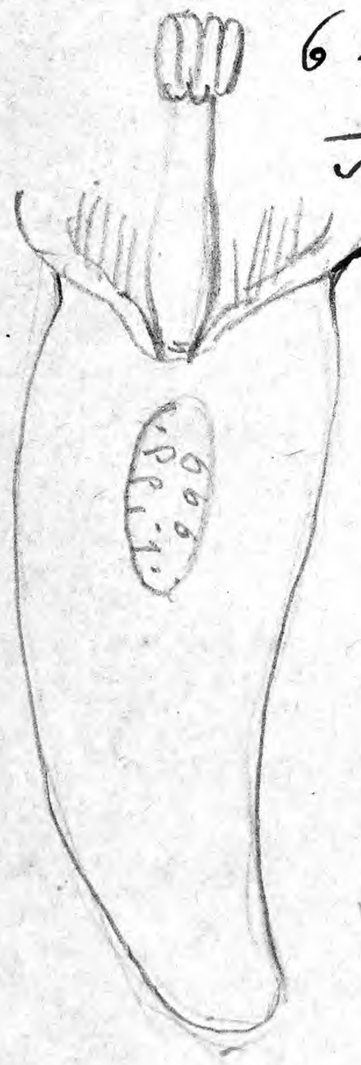
Hort Bot Missouri ex hort Salm Dyck
fl. July & Aug. 1860



Ovary 2 inches long, elongated, tuberculated, with 20 areolae and 5 to 8 on the upper margin; sepaloid leaves red, short, erect against areolae with white tomentum, few short bristles and scarcely any spines; or rarely a single erect one 2 or 3 lines long

sepals on ovary 1/2 l. long — half as thick

Acute 15 upper sepals, broad, short fleshy, obcordate red brown, the upper ones with yellow margin, obcordate, emarginate cuspidate; flower not more than 14–15 lines long.



6 erect yellow stigmata 3 lines long
style slightly ~~bulba~~ ventricose, with stigmas 1 inch long

petal, elliptic or broad short somewhat emarginate yellow

18
×270

18

14
270

8/154 24/412

Pollen angular, irregularly furrowed
0.052 – 0.066,
average 0.060.

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July 23' 1875 Opuntia ~~monacantha~~ elata H Bol Mo

joints long, dark green, spines almost confined to old trunk – rarely on young joints. Ovary 2 inches

flower 3½" diam 9–10 broad obovate orange

yellow, copper petals, 8–9 green convivent

capitate stigmas

flower – buds small, acute

sepals of ovary thick red

small no divide

pulvilli

only abt 10 sepals

no leaves seen

PRESCRIBED BY
Dr. GEO. EHLMANN
OFFICE.—S. W. Cor. 5th & Elm
RESIDENCE.—N. W. Cor. Garrison Ave. & Locust St.

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3006

All medicine sent to any part of the City, if required.

GEO. B. FRESE,

Druggist & Pharmacist,

No. 3005 Olive Street, near Garrison Ave.,

SAINT LOUIS.

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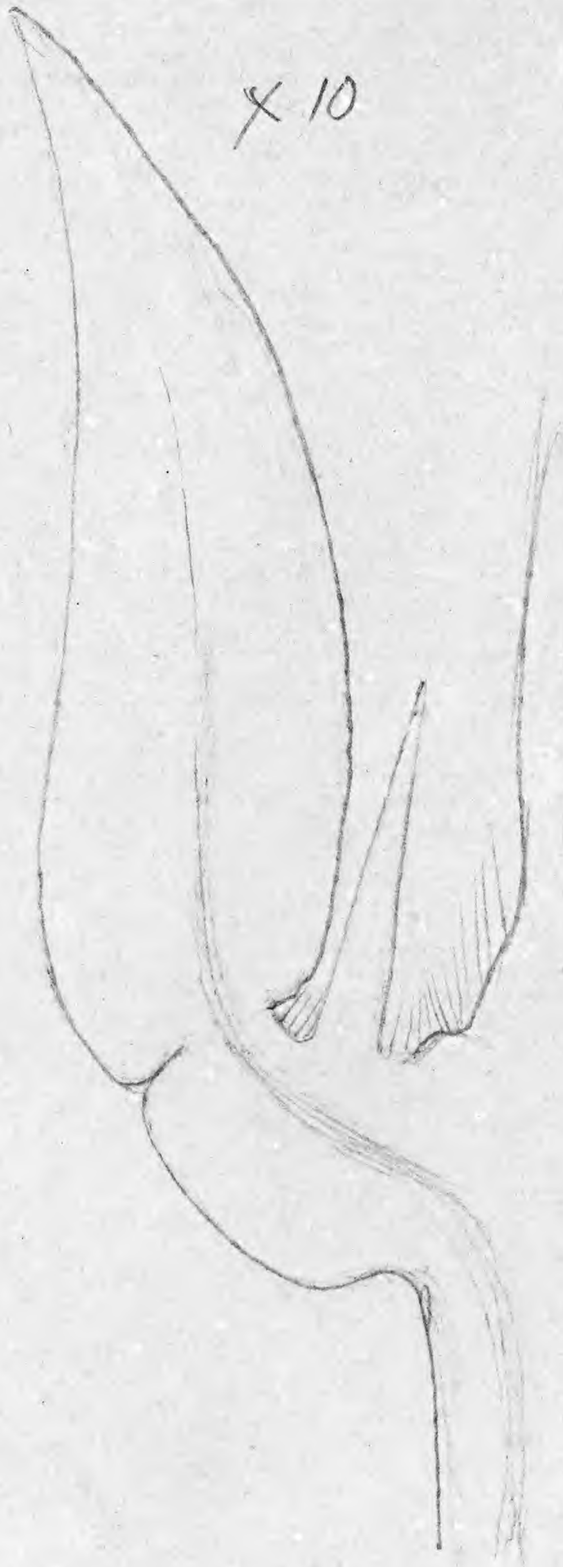
Op. Moxacanitha
Aug 1860



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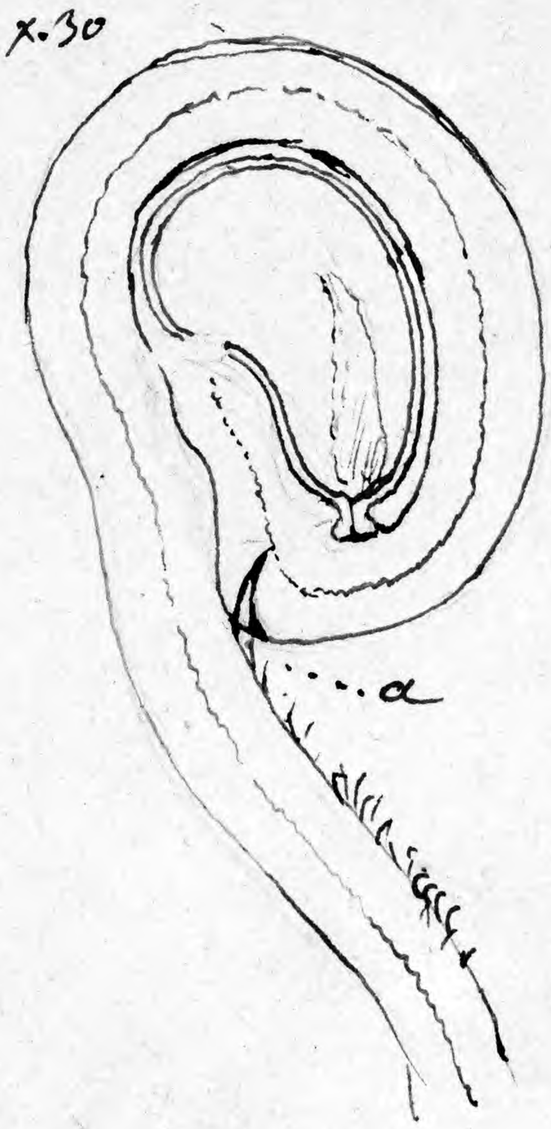
opuntia monacantha
St Louis Aug 1860

sect. of ovulum

sect. of ovulum
showing the external
coat has been removed
and the funiculus set free

ovulum with its coats, entire
prepared with caustic potash



form of the slit as
seen in front
through which the
pollen tovilla passes to
the ovul.

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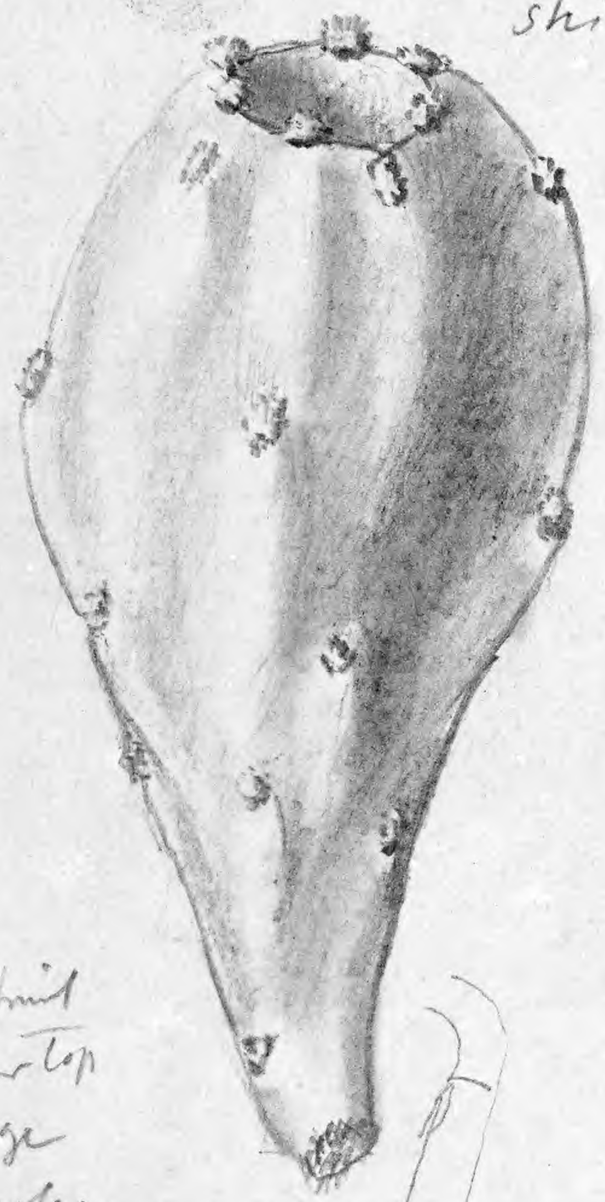
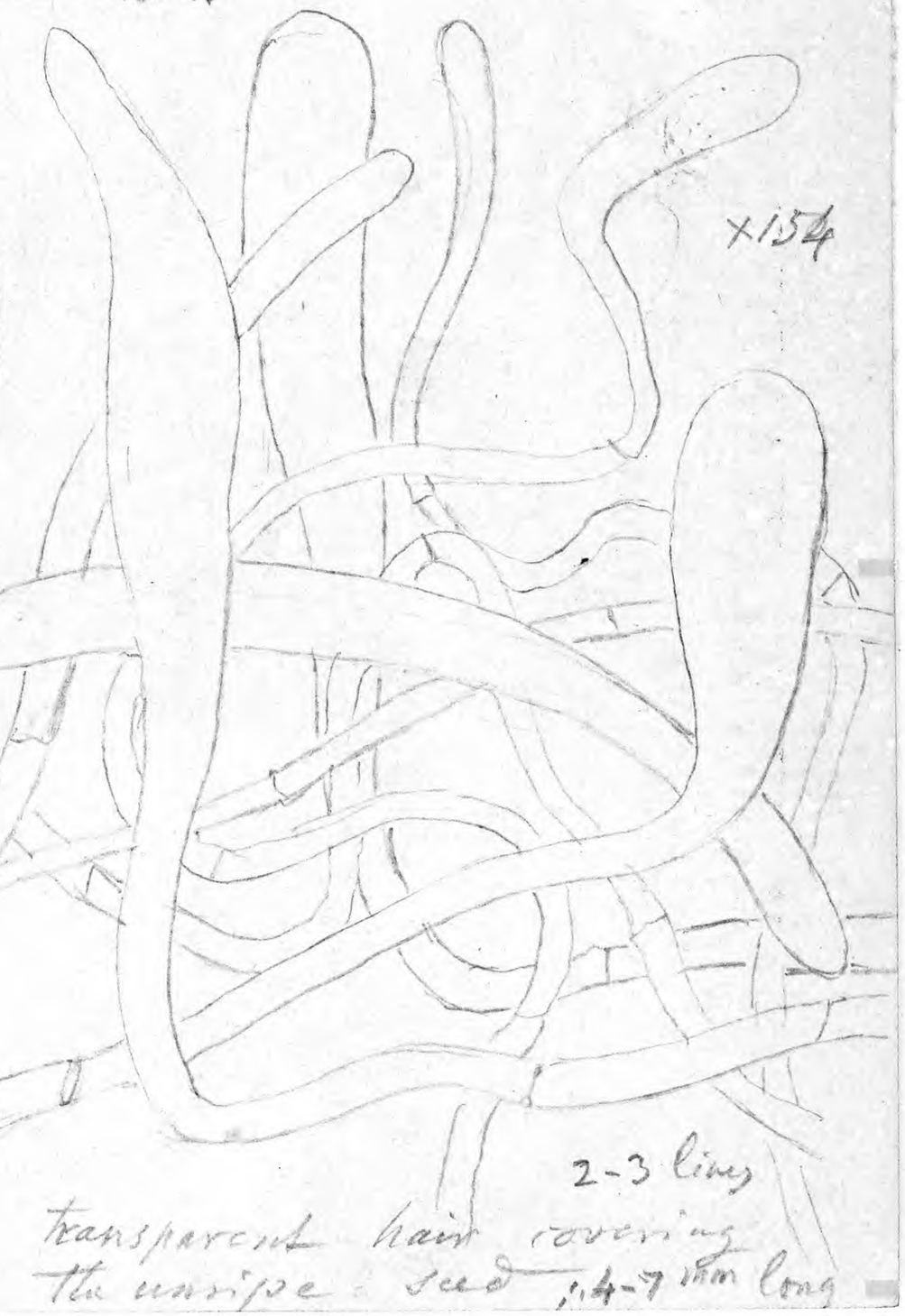
Opuntia monacantha. Sept 25 1861
Hot Box Missour

fruit unripe deep green
shining





×154

16 on fruit
3 near top
5 on edge
24 areolae

×154

2-3 lines
transparent hair covering
the unripe seed 1/4-7 mm long

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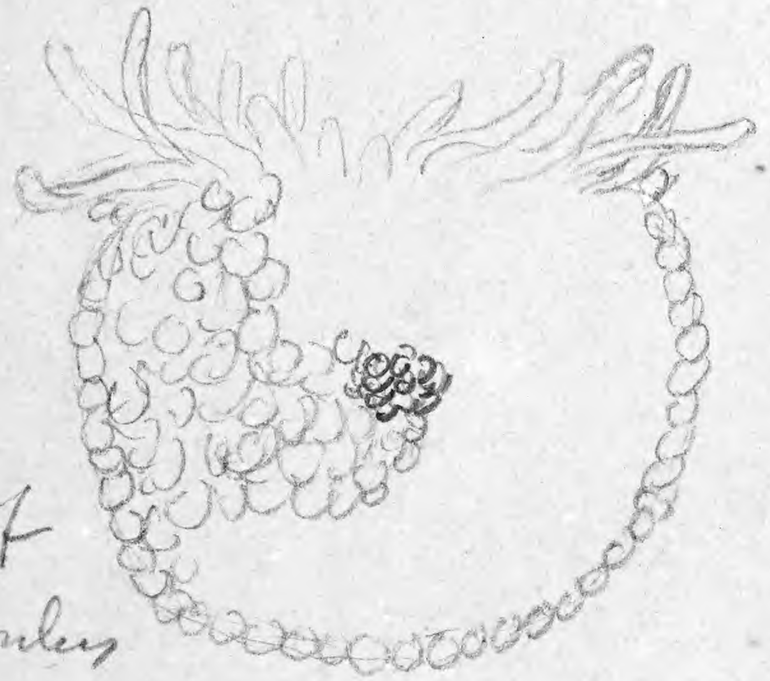
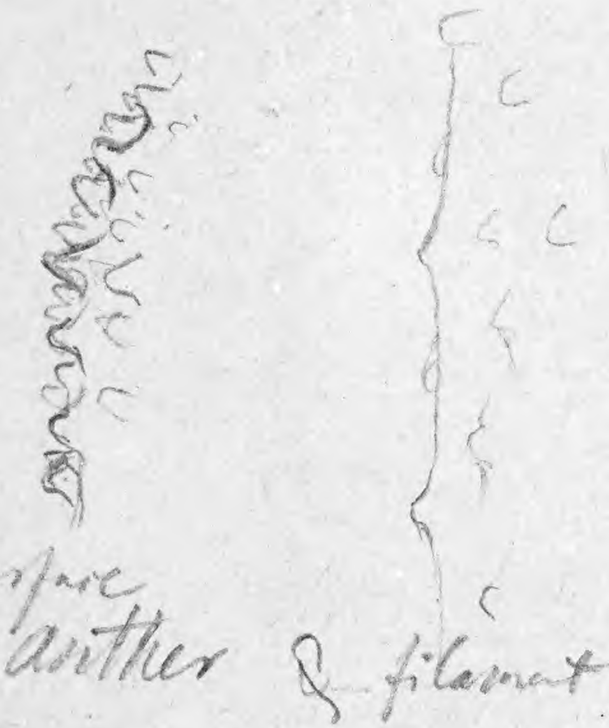
Opuntia monacantha Sept 27. 61



×60

Seed of funiculus



×60

Surface of anther & filament

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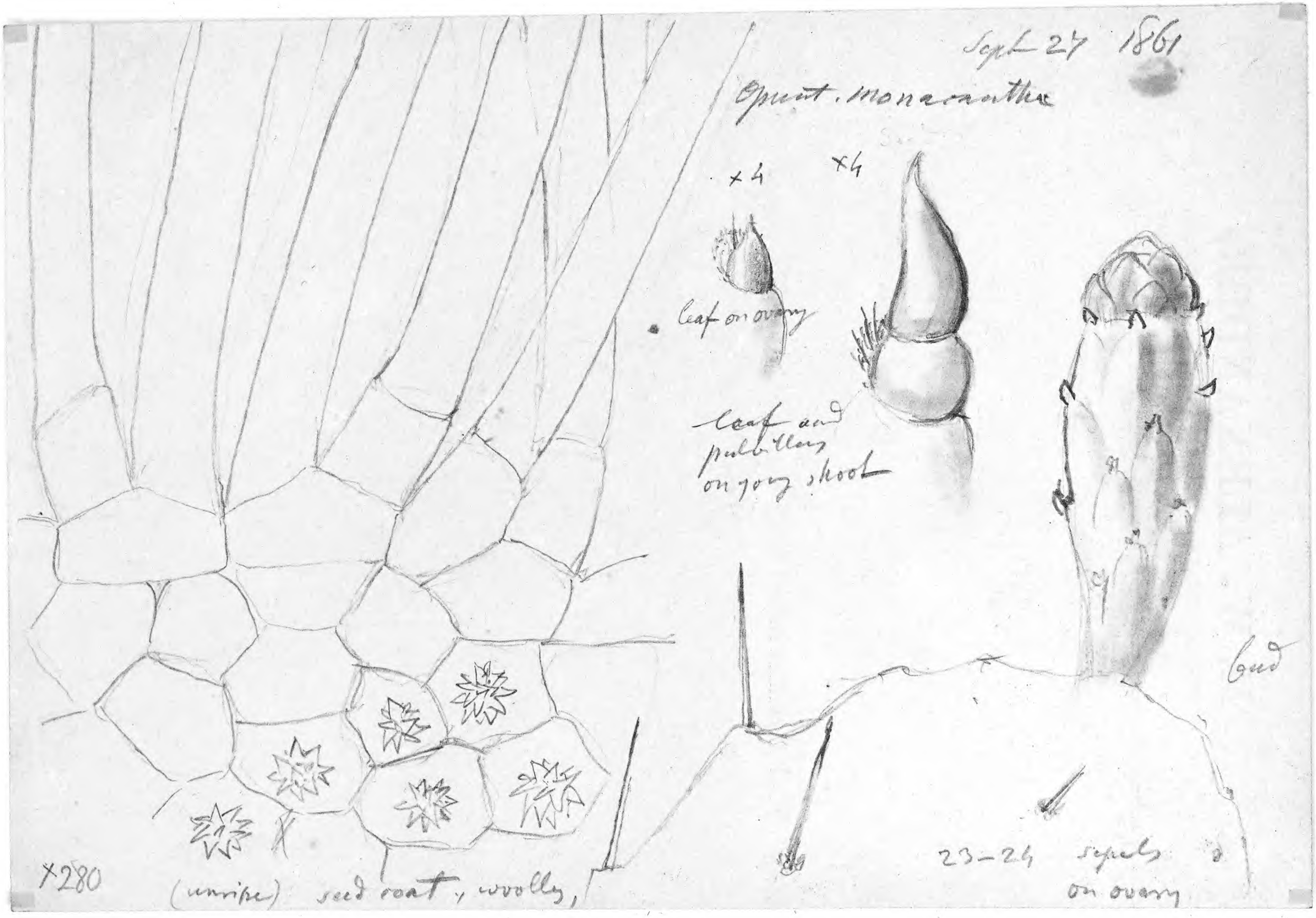
Sept 27 1861

Opunt. monacantha



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23-24

3011

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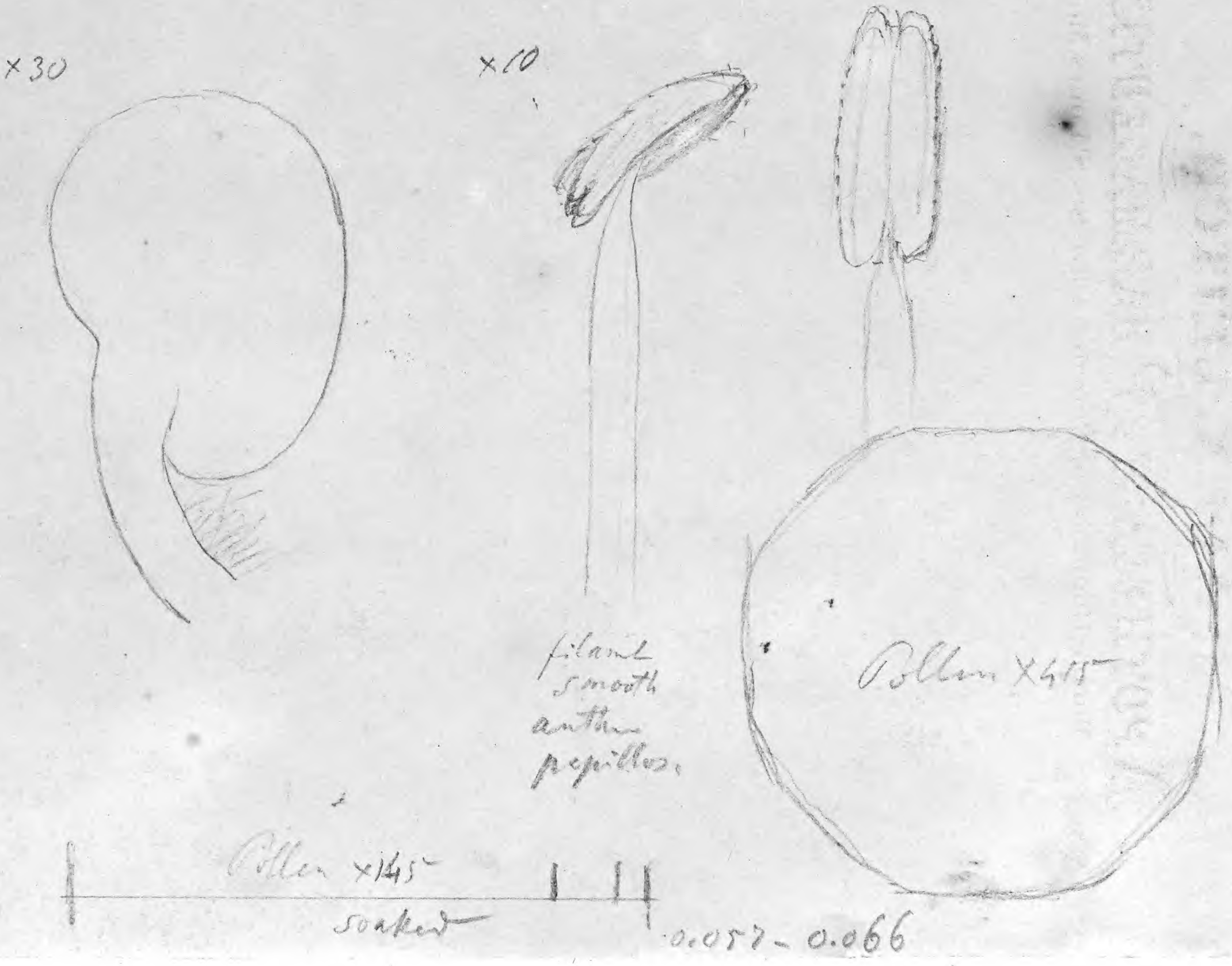
Opuntia - macrorhiza July 12 1965



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ALEX. LEITCH,

APOTHECARY & PHARMACEUTIST,

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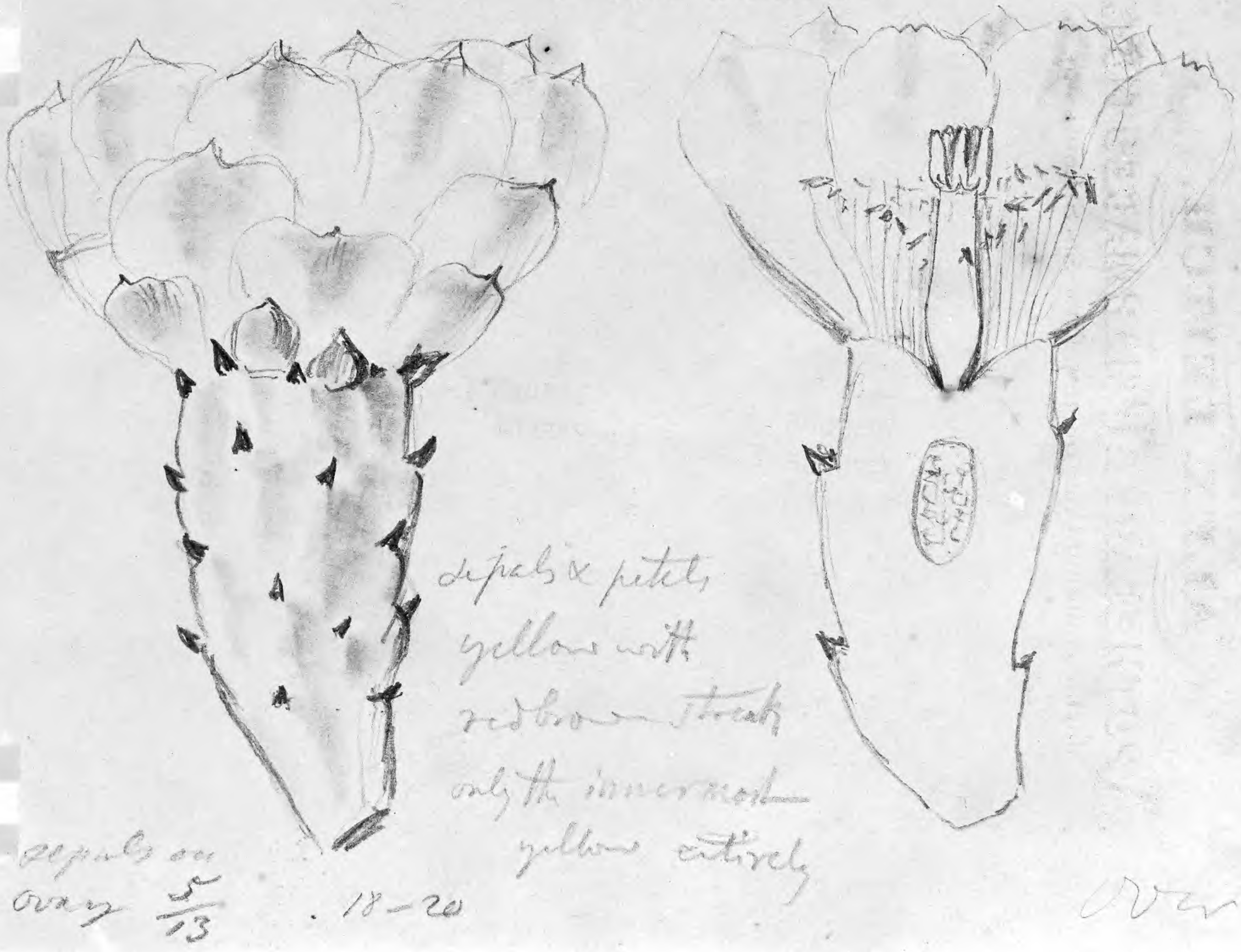
Opuntia microcarpa
Hob Mission.

July 12 1865



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APOTHECARY & PHARMACEUTIST,
Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

18 – 20 sepals on ovary
about 13 petals
7 stigmata pale yellow

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Sept 1860

?

Opuntia monacantha Haw. Pfeiff 164

Hort Bot Mersen. sub nom. "14 O. monacantha" ex Hort Dyck

erecta – patula 4–5 pedalis; articulis oblongo obovatis pedalibus 4–5" latis, pervisidis, tuberculatis, demum fere planis folia 3 lin longa rara, acuta, ut, aberecta.

areolae remotae orbiculatae parce tomento brevi albido pauci stipatae, sed ~~stipatae~~ mox evanidae, pauci articuli hinc inde inermes

aculeis solitariis, singulis v. sepissime binis in senectis ~~binis~~ ternis, ~~superior~~ albidis

coerulei apice obscuri, subteretes

superior major 1–1½ pollicaris, inferiores ~~brevior~~ vix pollicares minores, plerumque deflexi;

~~Flos~~ 2–2½ pollicaris, ovarium ½ pollicare e clavato cylindricum tuberculatum, areolis 20–24 stipatum, sepalis brevissimis rossis (½ lin. longis) acutis obsitum, sepala superiora (s. tabi) sub 15 transversis brevibus ~~rarissimis~~, obtusis cuspidatis ramosis, (fuscatis); petala sub 5 transversa lata vix emarginata, sulphurea

stigmata 6 erecta sulphurea, 3 lin longa

baccae pyriformis, magna, tuberculato-angulata, umbilico parvo, profunde infundibuliformi – seminea (circumstantia) villoso-ramosa.

baccae 3 poll longae 1½ latae, umbilicus vix ¾" lat.

Pfeiff. p. 164 says "aculeis brunneis apice flavidis" – otherwise his description agrees pretty well, of the flower however he says: ovary 1¼" long, 1" lat, flow 3" in diameter – which does not correspond with our plant. –

Weddell's figure 34 from Brasilia is identical with our plant.

over

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My notes made Jan 11th 1857 in Fort Dyck indicate a very different plant; the flower is different, sepals longer and not as broad and fruit plump and almost globulear, see notes.

The plant taken in Rom, April 9th 1858 for Monardella, seems different again; fruit plump but elavated elongated, with small flat umbilicus — see drawing.

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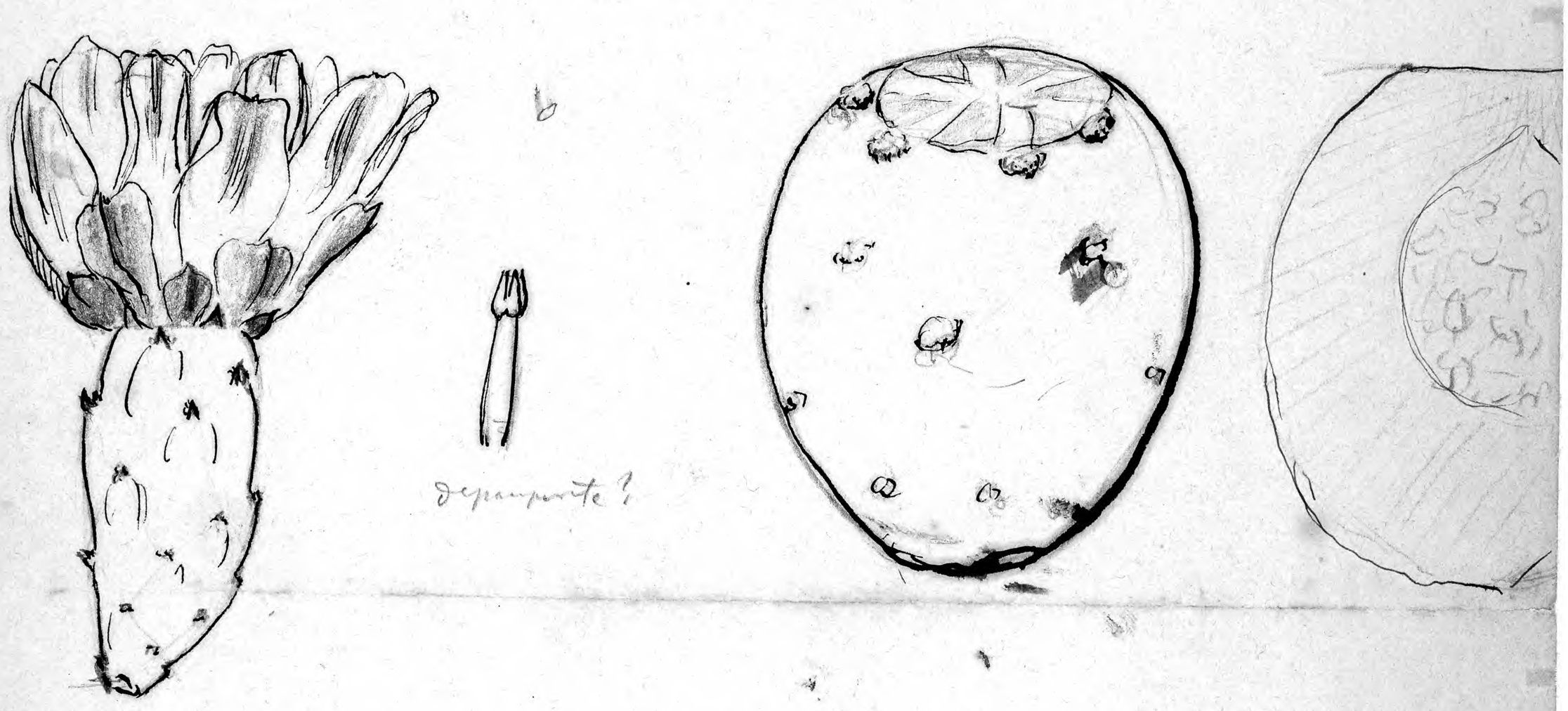
Notes made in looking through Prince Salm's Collection of Cactaceae Jan. 1857

Haw. see Pfeiff. p. 164

Opuntia monacantha A well characterized species, large and erect, but often with more than one spine.

I find some flowers today, Jan. 11th, many unripe fruit which are about 8 or 9 months old and one almost ripe, such, I am told, is nearly 2 years old



22-25 areolae on ovary; ovary obovate clavate, laete virens; folia brevissima rubella; sepala tubi obovata-cuspidata, rubra; 10-12 petala totidem, oblonga-obtusa; flava, apice rubella. — stigmata 5 amantiaca, erecta acuta; stylus albidus vix inflatus (deciduent??)

Baccae subglobosa, umbilico plana, crassa carnosa. — 2½" long 2" in diameter.

Semina plurima parva

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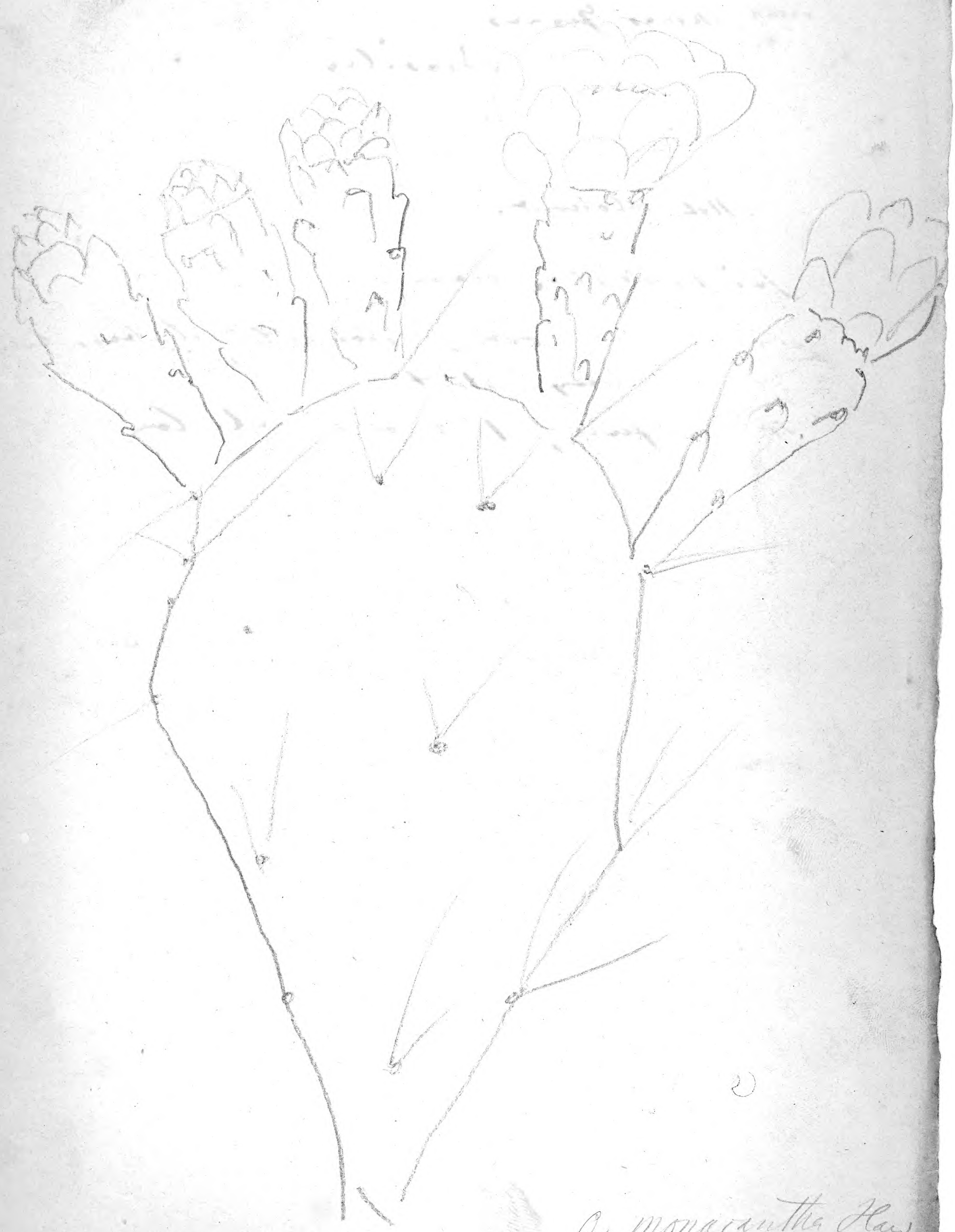

O. monacantha Haw.
at East of Hot Brk
Missouri

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34

3016

Mines Jones

Brasilia

Opuntia monacantha Haw.

Not coloured!

Joints obliptic, obovate

flowers large, ovary elongated, tuberculate

Areolae very distant

spines few, 1–1½ or 2 inches long

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